



## INTRODUCTION

There are a number of options that can be included on the command line when starting EnSight. The following tables indicate the commands that can be issued for the EnSight script (ensight7), the EnSight client (ensight7.client), the EnSight server (ensight7.server), or the EnSight server-of-servers (ensight7.sos). To see the most current listing for any of these, issue one or more of the following:

```
ensight7 -help
ensight7.client -help
ensight7.server -help
ensight7.sos -help
```

## BASIC USAGE

<b>ensight7 [options]</b>
or
<b>ensight7.client [options]</b>

<b>Section 1. EnSight Startup/Client-Server Options</b>	
-ar <f>	Restore from specified archive file “f”
-c <host>	Do an auto connection to machine named “host”. EnSight server will run on “host”
-case <f>	Read EnSight casefile name “f” and display part loader
-cm	Do a manual connection of server
-collab_port <#>	Specify the port for collaboration socket communication.
-ctx <f>	Applies context file “f” as soon as connection is made
-custom	Force the license manager to look for a custom token
-delay_refresh	Graphics window is not updated during command file playback, until finished
-extcfd	Extended CFD variables automatically placed in variable list
-gold	Force the license manager to look for a gold token
-localhostname <host>	Host name to force server(s) to use to connect to client
-p <f>	Plays playfile “f” as soon as connection is made
-ports #	Allows user specification of socket communication port.
-rsh <cmd>	Remote shell program to use for automatic connection
-security [#]	Forces a handshake between the client and server using the # provided or a random number
-sos	Set up to connect to the Server-of-Servers (ensight7.sos) instead of normal server.
-soshostname <host>	Host name to force server(s) to use to connect to Server-of-Servers
-standard	Force the license manager to look for a standard token
-timeout <#>	Number of seconds to wait for server connection; default = 60, infinite = -1
<b>Section 2. EnSight Client GUI Options</b>	
-ff	Use the default EnSight fixed font
-hc <c>	Current Selection Highlight Color Name “c”
-iconlblf <#>	Mode panel icon label font size
-ni	Will use text in place of icons
-sc <c>	Section Label color name “c”
-smallscreen	Sets window attributes based on the screen size of 1024x768
<b>Section 3. EnSight Server Specific Options</b>	
-gdbg	Print some debugging info for EnSight format geometries (passed from client to server)
-iwd	Ignore the working directory in the ensight.connect.default file
-time	Prints out timing information (passed from client to server)
-readerdbg	Prints user-defined-reader library loading information in shell window upon startup of server (passed from client to server)



-maxoff	Turns off maxsize checking (passed from client to server)
-scaleg <#>	Provide scale factor to scale geometry by (passed from client to server)
-scalev <#>	Provide scale factor to scale all vectors by (passed from client to server)
-swd <dir>	Set the server working directory

#### Section 4. Miscellaneous Options

-h, -help, -Z	Prints the usage list
-helvetica	Use Helvetica font instead of the default Times-Roman for annotation text in the graphics window
-inputdbg	Prints user-defined input device information
-nb	No automatic backup recording
-no_file_locking	Turns off file locking (lock()). Some systems don't support this properly
-no_prefs	Do not load saved user preferences (uses all original defaults)
-range10	Use palette ranges which are 10% in from the extremes
-silent	Causes all stdout and stderr messages to be thrown away
-stderr <f>	Cause all stderr messages to be written to the file.
-stdout <f>	Causes all stdout messages to be written to the file.

#### Section 5. Rendering Options

-batch <width>< height>	Batch mode with optional width and height. <i>Only available if running X version of EnSight, which you get by using -X option</i>
-bbox	Render only bounding boxes in the GUI window (useful for detached displays with -prsd2 option). (See <a href="#">How To Setup For Parallel Rendering</a> )
-dconfig	Specify a display configuration file
-display_list	Use OpenGL display lists
-glconfig	Prints current OpenGL configuration parameter defaults to screen
-glsw	Forces use of software implementation of OpenGL on Windows machines
-box_resolution <#>	Resolution of bounding boxes for part culling (max 9). Implies -no_display_list
-gl	Sets line drawing mode to draw polygons
-ogl	Sets line drawing mode to draw lines
-no_display_list	Force EnSight to use immediate mode graphics
-norm_per_vert	Use one normal per vertex for flat-shading
-norm_per_poly	Use one normal per polygon for flat-shading
-multi_sampling	Turns MultiSampling on
-no_multi_sampling	Do not use MultiSampling
-no_start_screen	Ignore the start screen image (Good for HP using TGS OpenGL)
-num_samples <#>	Specify number of samples for software multi-sampling
-occlusion_test	Use the HP occlusion extension if available
-no_occlusion_test	Do not use the HP occlusion extension
-stencil_buff	Use the OpenGL stencil buffer (even if not enabled by default)
-no_stencil_buff	Assumes there is not a working stencil buffer (some NT video cards)
-double_buffer	Use double-buffering for the graphics window (default)
-single_buffer	Do not use double-buffering
-sort_first	Sets the default parallel rendering sorting method to be the sort first method
-sort_last	Sets the default parallel rendering sorting method to be the sort last method
-X	Starts the X version of EnSight (uses Mesa OpenGL instead of native OpenGL). <i>This option is mandatory if the -batch option is desired.</i>

#### Section 5. X Window Specific Options

-bg <c>	Background Color colname "c"
-fg <c>	Foreground Color colname "c"
-fn <fn>	Font Name "fn"
-font <fn>	Same as -fn

**Client Examples:**

```
ensight7 -cm -p myplayfile
```

This will allow the user to do a manual connection, after which the “myplayfile” will be run.

```
ensight7 -c -gold -ports 1310 -case myfile.case
```

This will do an automatic connection (according to information in the user’s `ensight.connect.default` file) on port 1310, using a gold seat. After the connection is made, the “myfile.case” casefile will be run.

```
ensight7 -rsh ssh -hc yellow          (or  ensight7.client -c -rsh ssh -hc yellow)
```

This will use ssh as the remote shell for an automatic connection, and will set the highlight color to yellow (instead of the default color of green).

ensight7.server [options]	
-c <host>	“host” indicates where the client is running
-ctries <#>	The number of times (1 second per try) to try to connect client and server.
-ether	Ethernet device name such as <code>ln0</code>
-gdbg	Print some debugging info for EnSight format geometries
-h, -help	Prints the usage list
-maxoff	Turns off maxsize checking
-pipe	Forces the server to use a named pipe connection (must be on same machine)
-ports <#>	Allows user specification of socket communication port.
-readerdbg	Prints user-defined-reader library loading information in shell window upon startup of server
-sock	Forces the server to use a socket connection
-time	Prints out timing information
-scaleg <#>	Provide scale factor to scale geometry by
-scalev <#>	Provide scale factor to scale all vectors by
-security <#>	Provide number for client to server security check
-soshostname <host>	Allows different name for servers to connect back to Server-of-Servers with

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**Server Examples (when started manually):**

```
ensight7.server -c clientmachine -readerdbg
```

Specifies “clientmachine” as the machine on which the client is running, and that information on user-defined-reader library loading should be printed out.

```
ensight7.server -ports 1310 -scaleg 10.0 -scalev 10.0
```

Specifies that communication is to occur on port 1310, and that the geometry and all vectors are to be scaled by a factor of 10.

ensight7.sos [options]	
-c <host>	“host” indicates where the client is running
-ctries <#>	The number of times (1 second per try) to try to connect client and server.
-ether	Ethernet device name such as <code>ln0</code>
-gdbg	Print some debugging info for EnSight format geometries (passes on to servers)
-h, -help	Prints the usage list
-maxoff	Turns off maxsize checking (passes on to servers)
-pipe	Forces the server to use a named pipe connection (must be on same machine) (passes on to servers)
-ports <#>	Allows user specification of socket communication port.
-readerdbg	Prints user-defined-reader library loading information in shell window upon startup of server (passes on to servers)

ensight7.sos [options]	
-c <host>	“host” indicates where the client is running
-ctries <#>	The number of times (1 second per try) to try to connect client and server.
-ether	Ethernet device name such as <code>ln0</code>
-gdbg	Print some debugging info for EnSight format geometries (passes on to servers)
-h, -help	Prints the usage list
-maxoff	Turns off maxsize checking (passes on to servers)
-pipe	Forces the server to use a named pipe connection (must be on same machine) (passes on to servers)
-ports <#>	Allows user specification of socket communication port.
-readerdbg	Prints user-defined-reader library loading information in shell window upon startup of server (passes on to servers)



-rsh <cmd>	Remote shell program to use for automatic connection of servers
-sock	Forces the server to use a socket connection
-scaleg <#>	Provide scale factor to scale geometry by (passes on to servers)
-scalev <#>	Provide scale factor to scale all vectors by (passes on to server)
-security <#>	Provide number for client to server security check (passes on to servers)
-soshostname <host>	Allows different name for servers to connect back to Server-of-Servers with (passes on to servers)
-time	Prints out timing information (passes on to servers)

**SOS (Server-of-Servers) Examples (when started manually):**

```
ensight7.sos -c clientmachinename -soshostname sosmachinename
```

Specifies “clientmachinename” as the machine on which the client is running, and that the individual servers should connect back to “sosmachinename”.

```
ensight7.sos -readerdbg -gdbg
```

Specifies that the sos and any servers print out user-defined-reader library loading information, and that the servers print out EnSight data format geometry loading information.